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_	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	09/662,850	09/15/2000	Oskar Lamla	1748/49133	2145
	237	7590 05/06/2002 & MORING LLP		EXAM	INER
	INTELLECTU P.O. BOX 143	JAL PROPERTY GRO	U P	RUDNICK, DOUGLAS W	
	WASHINGTO	ON, DC 20044-4300	$\gamma = \gamma \gamma$	ART UNIT	PAPER NUMBER
			· ·	1764	10
				DATE MAILED: 05/06/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Say					
,	Application No.	Applicant(s)					
	09/662,850	LAMLA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Douglas W Rudnick	1764					
The MAILING DATE of this communication app Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl' - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS from the application to become ABANDO	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 26 f	ebruary 2002 .						
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.						
3) Since this application is in condition for allows	ance except for formal matters,	prosecution as to the merits is					
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D. 11	, 433 O.G. 213.					
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application							
4a) Of the above claim(s) <u>6-11</u> is/are withdraw	n from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	· ·	vaminer					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the							
11) The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disap	proved by the Examiner.					
If approved, corrected drawings are required in re		•					
12) The oath or declaration is objected to by the Ex		7					
Priority under 35 U.S.C. §§ 119 and 120							
•	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)☐ Some * c)☐ None of:							
1.⊠ Certified copies of the priority documen	ts have been received.						
2. Certified copies of the priority documen		ation No					
Copies of the certified copies of the prical application from the International But See the attached detailed Office action for a list	ureau (PCT Rule 17.2(a)).						
14) ☐ Acknowledgment is made of a claim for domes							
a) \square The translation of the foreign language pr	a) ☐ The translation of the foreign language provisional application has been received. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)	and pricerry arrange and order 33						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)					

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I. in Paper No. 9 is acknowledged. The traversal is on the ground(s) that the method and apparatus claims contain common distinguishing features. This is not found persuasive because apparatus can be used to practice another and materially different process, such as without a material being a catalyst, as stated in the previous office action in Paper No. 8.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 6-11 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected method, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 9.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The title is directed to an apparatus and a method. It should be changed to reflect that only an apparatus is in the pending claims.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balling et al. (US 5397545) in view of Pratt et al. (US 6132895).

With respect to claim 1:

Balling et al. discloses the invention substantially as claimed. Balling et al. discloses a stack with a plurality of layers (Fig. 2), the layers comprising catalytic material (Col. 4, lines 26-27), and the layers having channels (Fig. 2, 34). However, Balling is silent to a plurality of end plates where at least one of the end plates has a supply or discharge line and to layers having an edge seal.

Pratt et al. teaches a plurality of end plates (Fig. 5, 560) where at least one of the end plates has a supply or discharge line (Fig. 5, 577 and 575) and

layers having an edge seal (Col. 6, lines 5-6) for the purpose of introducing the fuel and providing a gas-tight cell, respectively.

It would have been obvious to one ordinary skill in the art at the time

Applicants' invention was made to have provided a plurality of end plates where

at least one of the end plates has a supply or discharge line and layers having an

edge seal in Balling et al. in order to, respectively, introduce fuel and provide a

gas-tight cell as taught by Pratt et al.

With respect to claim 4:

Balling et al. discloses the invention substantially as claimed. However, Balling et al. is silent to the support structure for the catalyst material being metallic. Pratt et al. teaches a metallic support structure (Col. 4, lines 4-10) for the purpose of the structure having good conductivity.

It would have been obvious to one of ordinary skill in the art at the time

Applicants' invention was made to have provided a metallic support structure in

Balling et al. in order to have good conductivity as taught by Pratt et al.

7. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balling et al. in view of Pratt et al., as applied to claim 1, and Farooque et al. (US 6200696).

With respect to claim 2 and 3:

The modified apparatus of Balling et al. discloses the invention substantially as claimed. However, the modified apparatus of Balling et al. is

silent to a gas-tight sheet that surrounds the layers and has at least one opening and comprises a catalyst. Farooque et al. teaches a gas-tight sheet that surrounds the layers (Col. 4, lines 19-22) and has at least one opening (Fig. 1B) and comprises a catalyst (claim 28) for the purpose of containing leaking fuel.

It would have been obvious to one of ordinary skill in the art at the time Applicants' invention was made to have provided a gas-tight sheet that surrounds the layers and has at least one opening and comprises a catalyst in the modified apparatus of Balling et al. in order to contain leaking fuel as taught by Farooque et al.

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Balling et al. in view of Pratt et al., as applied to the claims above, and Lee et al. (US 6168703).

The modified apparatus of Balling et al. discloses the invention substantially as claimed. However, the modified apparatus of Balling et al. is silent to dendritic copper being used for the support structure. Lee et al. teaches the use of dendritic copper (Col. 1, lines 34-37) for the purpose of preventing thermal degradation.

It would have been obvious to one of ordinary skill in the art at the time

Applicants' invention was made to have provided dendritic copper being used for
the support structure in the modified apparatus of Balling et al. in order to prevent
thermal degradation as taught by Lee et al.

Conclusion

The references US 2002/0012827 A1, US 4526845, and US 5209906 are 9.

cited to show state of the art.

Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Douglas W. Rudnick whose telephone

number is 703-305-3141. The examiner can normally be reached on M-F (8:30

am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Marian Knode can be reached on 703-308-4311. The fax

phone numbers for the organization where this application or proceeding is

assigned are 703-872-9310 for regular communications and 703-872-9311 for

After Final communications.

Any inquiry of a general nature or relating to the status of this application

or proceeding should be directed to the receptionist whose telephone number is

703-308-0661.

Douglas W. Rudnick

Art Unit 1764

dwr

May 1, 2002

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700